| Index of | Claims |
|----------|--------|
|          |        |

| Application No. | Applicant(s)   |  |  |  |  |  |  |
|-----------------|----------------|--|--|--|--|--|--|
| 09/826,827      | IKURUMI ET AL. |  |  |  |  |  |  |
| Examiner        | Art Unit       |  |  |  |  |  |  |
| Dean O Takaoka  | 2817           |  |  |  |  |  |  |

| / | Rejected | 1 | (Thr ugh numeral)<br>Canc II d |
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| = | Allowed  | ÷ | Restricted                     |

| ٧ | Non-El cted  | A | Appeal   |
|---|--------------|---|----------|
| _ | Interference | 0 | Objected |

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|----------|---------------|--------------|----------|----------|----------|------------|--|----------------|--|--|---|--------------|-------------|----------|--|--|--------------|--|----------|
| Cla      | im            |              |          | _        |          | Date       | _  |                | _  | _  |   | Cla          | im          |          | _  |  |              | ate  | •        |
| Final    |               | 10/1/02      | 12/11/02 | 4/10/03  | 10/7/03  | 2/4/04     |  |                |  |  |   | Final        | Original    |          |  |  |              |  |          |
| 1        | (1)           | +            | Х        | Х        | Х        | =          |  |                |  |  |   |              | 51          |          |  |  |              |  |          |
| 2        | 2             |              | х        | х        | х        | =          |  |                |  |  |   |              | 52          |          |  |  |              |  |          |
|          | 3             |              | 0        | Х        | Х        | =          |  |                |  |  |   |              | 53          |          |  |  |              |  |          |
| <u>3</u> | 4             |              | 0        | х        | Х        | =          |  |                |  |  |   |              | 54          |          |  |  |              |  |          |
| 5        | 5             |              | 0        | х        | Х        | =          |  |                |  |  |   |              | 55          |          |  |  |              |  |          |
| 6        | 6             |              | 0        | Х        | Х        | =          |  |                |  |  |   |              | 56          |          |  |  |              |  |          |
|          | 7             |              | 0        | 0        | 0        |            |  |                |  |  |   |              | 57          |          |  |  |              |  |          |
| 8        | 8             |              | 0        | Х        | Х        | =          |  |                |  |  |   |              | 58          |          |  |  |              |  |          |
| 9        | 9             |              | 0        | X        | X        | =          |  |                |  |  |   |              | 59          |          |  |  |              |  |          |
| 10       | 10            |              | 0        | Х        | Х        | =          |  |                |  |  |   |              | 60          |          |  |  |              |  |          |
| 11       | 11            |              | 0        | Х        | X        | =          |  |                |  |  |   |              | 61          |          |  |  |              |  | Ш        |
| 12       | 12            |              | Х        | Х        | Х        | =          |  |                |  |  |   |              | 62          |          |  |  |              |  |          |
| 7        | 13            |              | Х        | Х        | X        | =          |  |                |  |  |   |              | 63          |          |  |  |              | L  |          |
|          | 14            |              | N        |          |          |            |  |                |  |  |   |              | 64          |          |  |  |              |  | Ш        |
|          | 18            |              | N        |          |          |            |  |                |  |  |   |              | 65          |          |  |  |              |  | Ш        |
|          | 18            |              | N        |          |          |            |  |                |  |  |   |              | 66          |          |  |  |              |  | Ш        |
|          | 17            |              | N        |          |          |            |  |                |  |  |   |              | 67          |          |  |  |              |  |          |
|          | 18            |              | N        |          |          |            |  |                | _  |  |   |              | 68          |          |  |  |              |  |          |
|          | <del>19</del> |              | N        |          |          |            |  |                |  |  |   |              | 69          |          |  | _  |              |  | Ш        |
|          | 20            |              | N        |          |          |            |  |                |  |  |   |              | 70          |          |  |  |              |  |          |
|          | 21            |              | N        |          |          |            |  |                |  |  |   |              | 71          | Ŀ        |  |  |              |  | Ш        |
|          | 22<br>23      |              | N        | L        |          |            |  |                |  |  |   |              | 72          |          |  |  |              |  | Ш        |
|          | 23            |              | Ν        | _        |          | L          | _  |                |  |  |   |              | 73          |          |  |  |              |  |          |
|          | 24            |              | Ν        |          |          | L          |  |                |  | L.   |   |              | 74          |          |  |  |              |  |          |
|          | 25            |              |          |          | ļ        |            |  |                |  |  |   |              | 75          |          |  |  |              |  |          |
|          | 26            |              | <u> </u> | ļ.,      | <u> </u> | L          | 1  |                | <u> </u>   | _  |   |              | 76          |          |  | _  | _            | _  |          |
|          | 27            | _            |          |          |          | <u> </u>   |  | _              |  |  |   |              | 77          |          |  | _  | ļ            | <u> </u>   |          |
|          | 28            | _            | <u>L</u> | _        | ऻ_       | lacksquare | ļ  | ļ              | _  |  |   |              | 78          | _        |  |  | _            | _  | $\vdash$ |
|          | 29            | <u> </u>     | ļ        | <u> </u> | ┞        | <u> </u>   | _  | <u> </u>       | _  |  |   |              | 79          | $\vdash$ |  | _  | <u> </u>     | _  |          |
|          | 30            |              | _        | _        | ▙        | ├-         | ┡  | <u> </u>       | -  |  |   |              | 80          |          |  |  | <u> </u>     |  |          |
|          | 31            | _            | <u> </u> | ļ        | ┡        | <u> </u>   | <b>├</b>   | ⊢              | _  | L  |   |              | 81          |          | -  | ├-   | ⊢            | ⊢  | H        |
|          | 32            | ├_           | <u> </u> | ┝        | ├-       | ⊢          | ┝  | ┡              |  | _  |   | <u> </u>     | 82<br>83    | _        | _  | _  | ┝            | -  | -        |
|          | 33            | <u> </u>     | ⊢        | -        | ├-       | ├-         | _  | ⊢              | <u> </u>   | _  |   |              |             | -        | _  | ⊢  | _            | <del> </del>                                     | H        |
|          | 34            | l –          | ├        | ┢        | ┝        | ├—         | -  | ├-             | ⊢  | ├  |   | <u> </u>     | 84<br>85    |          | -  | -  | -            | -  | -        |
|          | 35_           | -            | ┢        | ⊢        | -        | ⊢          | ┝  | ├              | <del> </del>                                     |  |   | <u> </u>     | 86          | -        | -  | -  |              | $\vdash$   | $\vdash$ |
|          | 36            | -            | ┝        | -        | -        | ⊢          | -  | $\vdash$       | -  | -  | l | <u> </u>     | 87          | H        | -  | -  | H            | ⊢  | $\vdash$ |
| _        | 37            | $\vdash$     | -        | ├        | ╁        | ├          | ┢  | ┝              | ├  | -  | 1 | ├            | 88          | ┝        |  | ├  | <del> </del> | -  | ╁        |
|          | 38<br>39      | ┝            | ₩        | ├        | ┢        | -          | ┢  | <del> </del> - | -  | -  | ł |              | 89          | H        | -  | ┢  | -            | ┢  | ┢╾       |
|          | 40            | ├            | ╁        | ┢╌       | ├-       | ╁          | ├  | $\vdash$       | ⊢  | -  | ł |              | 90          | -        | $\vdash$   | 1  | -            | ┢  | ╁╾       |
|          | 41            | ╁            | ├        | ⊢        | ╁        | ╫          | $\vdash$   |                | ┢  |  | 1 |              | 91          |          | H  | ╁  |              | ┢  | 1        |
|          | 42            | $\vdash$     | $\vdash$ | ╁╾       | ╁        | ╁┈         | ┢  | -              | -  | <del>                                     </del> | 1 |              | 92          | -        | $\vdash$   | $\vdash$   | -            | ┰  | $\vdash$ |
|          | 43            | $\vdash$     | $\vdash$ |          | ╁        | ╁          | <del> </del>                                     | -              | ┢  | ╁  | 1 | <del> </del> | 93          | ┢        | $\vdash$   | ┢  | $\vdash$     | $\vdash$   | t        |
|          | 44            | -            | +-       | t        | ╁        | $\vdash$   | +  | $\vdash$       | <del>                                     </del> | $\vdash$   | 1 |              | 94          |          | $\vdash$   | $t^-$  | 1            | <del>                                     </del> | †        |
|          | 45            | -            | +-       | $\vdash$ | +-       | $\vdash$   | 1  | $\vdash$       | 1  | Η-   | 1 | <del> </del> | 95          | T        | $\vdash$   | t  | $\vdash$     | T  | 1        |
|          | 46            | +-           | +-       | $\vdash$ | +-       | +          | H  | $t^-$          | t  | $t^-$  | 1 |              | 96          | $\vdash$ | <del>                                     </del> | <del>                                     </del> | $\vdash$     | 1  | $\top$   |
|          | 47            | $\vdash$     | +        | $\vdash$ | T        | $\vdash$   | <del>                                     </del> | 1              | <del>                                     </del> | Т  | 1 |              | 97          | Г        | Т  |  | ı            |  | T        |
|          | 48            | $\vdash$     | ╁╌       | T        | T        | +-         | t  | $\vdash$       | $\vdash$   | tΞ   | 1 |              | 98          | Г        |  | t  |              | Г  | $\vdash$ |
|          | 49            | H            | 十        | T        | +        | +          | t  | $\vdash$       | 1  | $\vdash$   | 1 |              | 99          | $\vdash$ | Т  | $T^{-}$  | Τ            | $\Box$   | T        |
|          | 50            | H            | $\vdash$ | 1        | T        | $t^{-}$    | T  | 1              | Ι-   | $\vdash$   | 1 |              | 100         | Г        |  | Т  |              | Г  | 1        |
|          | , ,,,         | <del>ا</del> |          | _        |          | -          | -  | 1              |  |  | _ |              | <del></del> | •        |  | •  | _            |  |          |

|              |                                 |          | -               |          |  |          |              |  | l  |          |  |  |
|--------------|---------------------------------|----------|-----------------|----------|--|----------|--------------|--|--|----------|--|--|
| Cla          | aim                             | Date     |                 |          |  |          |              |  |  |          |  |  |
| Final        | Original                        |          |                 |          |  |          |              |  |  |          |  |  |
|              | 101                             |          |                 |          |  |          |              |  |  |          |  |  |
|              | 102                             |          |                 |          |  |          |              |  |  |          |  |  |
|              | 103                             | Ш        |                 | _        |  |          |              |  |  |          |  |  |
|              | 102<br>103<br>104<br>105<br>106 |          |                 | _        |  |          |              |  |  |          |  |  |
| <u> </u>     | 105                             | <u> </u> |                 |          |  |          |              |  |  |          |  |  |
|              | 100                             |          | _               |          |  |          |              |  |  |          |  |  |
| _            | 107                             |          | _               | -        | _  | _        |              |  |  |          |  |  |
|              | 109                             |          | -               |          |  |          |              |  |  |          |  |  |
|              | 110                             |          |                 |          |  |          |              |  |  |          |  |  |
|              | 111                             |          |                 |          |  |          |              |  |  |          |  |  |
|              | 112                             |          |                 |          |  |          |              |  |  |          |  |  |
|              | 112<br>113                      |          |                 |          |  |          |              |  |  | Ш        |  |  |
|              | 114                             |          |                 |          |  |          | _            |  |  | Ш        |  |  |
|              | 115                             | _        |                 | _        | _  | <u> </u> | _            |  |  | $\vdash$ |  |  |
| -            | 116<br>117                      | -        | _               | -        |  | $\vdash$ | -            |  |  | Н        |  |  |
| <del> </del> | 118                             | -        | ┝               | H        |  |          | -            | _  | -  | Н        |  |  |
|              | 118<br>119                      | -        | _               | H        | <del>                                     </del> | H        | -            | _  | $\vdash$   | Н        |  |  |
| <u> </u>     | 120                             | ┢        | _               |          | $\vdash$   |          | $\vdash$     |  | $\vdash$   |          |  |  |
|              | 121                             |          |                 | _        |  |          |              | _  | _  |          |  |  |
|              | 121<br>122                      |          |                 |          |  |          |              |  |  |          |  |  |
|              | 123<br>124<br>125               |          |                 |          |  |          |              |  |  | -        |  |  |
|              | 124                             | <u> </u> | L.              |          |  |          |              |  |  | Щ        |  |  |
|              | 125                             | <u> </u> |                 | -        |  | <u> </u> | _            |  |  |          |  |  |
|              | 126<br>127<br>128               | ⊢        | ⊢               | 1        | $\vdash$   |          | _            | _  |  | H        |  |  |
| $\vdash$     | 128                             | ├        | -               | 1        | -  | ├        | ├-           | $\vdash$   | $\vdash$   | $\vdash$ |  |  |
| -            | 129                             | ┢        | $\vdash$        | $\vdash$ | $\vdash$   | $\vdash$ | $\vdash$     | ┢  |  | H        |  |  |
| -            | 129<br>130                      | T        |                 | i        |  | ऻ        | ┪            |  |  |          |  |  |
|              | 131                             |          |                 |          |  |          |              |  |  |          |  |  |
|              | 132                             |          |                 |          |  | 匚        |              |  |  |          |  |  |
|              | 133                             |          |                 | _        | L  | <u> </u> |              | <u>L</u>   | <u> </u>   | Ш        |  |  |
|              | 134                             | ļ        | L               | ┢        | <u> </u>   | _        | <u> </u>     | -  | _  | Н        |  |  |
|              | 135<br>136                      | ₩        | ├               | ┢        | -  | ⊢        | ⊢            | H  | ├-   | $\vdash$ |  |  |
|              | 130                             | $\vdash$ | ├               | ├        | ├  | ⊢        | -            | _  | -  | $\vdash$ |  |  |
|              | 137<br>138                      |          | ┢               | 一        |  | ╁        | $\vdash$     | ┢─   | <del>                                     </del> | Н        |  |  |
|              | 139                             | 1        |                 | $\vdash$ | $\vdash$   | $\vdash$ | $\vdash$     | <del>                                     </del> | _  | П        |  |  |
|              | 140                             |          |                 |          |  | L        |              |  |  | П        |  |  |
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|              | 142                             |          | 匚               | Ĺ        | Ĺ  | L        | 匚            | Ĺ  |  | Ш        |  |  |
| L            | 143                             | $\vdash$ | $oxed{igspace}$ | <b>—</b> | <u> </u>   | <u> </u> | _            | <u> </u>   | L  | Ш        |  |  |
| <u> </u>     | 144                             | 1        | ļ               | ⊢        | 1  | ├-       | <u> </u>     | _  | <del> </del>                                     | $\vdash$ |  |  |
|              | 145<br>146                      | $\vdash$ | ├-              | 1-       | $\vdash$   | $\vdash$ | <del> </del> |  | -  | $\vdash$ |  |  |
| -            | 146                             | $\vdash$ | $\vdash$        | +-       | $\vdash$   | ╁        | $\vdash$     |  | $\vdash$   | $\vdash$ |  |  |
| <u> </u>     | 148                             | +        | $\vdash$        | +-       | H  | t        | H            | $\vdash$   | ╁  | $\vdash$ |  |  |
| $\vdash$     | 149                             | T        | $\vdash$        | $t^-$    | $\vdash$   | ╁        | $\vdash$     | T  | $\vdash$   | $\vdash$ |  |  |
|              | 150                             |          | T               |          |  |          |              |  |  |          |  |  |
|              |                                 |          | -               | _        | -  | -        |              | ·  | •  |          |  |  |